

- STATE OF OHIO
★ REGISTERED PROFESSIONAL ★
STAN R. LOCH
8243

NOTE: 1) WITHIN THE GEOTEXTILE GRID REINFORCEMENT AREAS BEHIND BOTH TIENS OF THE VERSA-LOCK WALLS, THERE SHALL BE NO BURIED UTILITIES AND FUTURE EXCAVATIONS 1' BELOW FINISHED GRADE.

3RD. SUBMISSION
Stormwater Management Plan
Approved as shown and/or noted
JAMES R. GILLS, P.E.
County Drainage Engineer
By L.S. Date 5/22/09

2ND SUBMISSION
APPROVED 2/20/09
Stormwater Management Plan
Approved as shown and/or noted
JAMES R. GILLS, P.E.
County Drainage Engineer
By L.S. Date 6/29/09

AS NOTED IN LAKE COUNTY ENGINEER'S
6/28/06 MEMO TO JERRY FLANIK

HERMITAGE ROAD 60' R/W

CROOKED STICK
DRIVE 60' E 1/4

38879 MENTOR AVENUE SUITE A
WILLOUGHBY OHIO 44094
440-602-9071

AZTECH
ENGINEERING and SURVEYING
Civil Engineering · Land Surveying

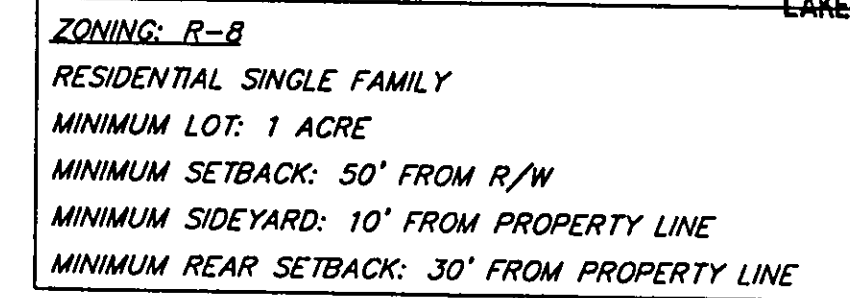
01 HORIZ. SCALE 1" = 20'

DRAWN BY. CL DATE. 6/8/06

CHECKED BY: SRL	DRAWING NO. 1415
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Doc No: 141564 SHEET 1 OF 3

20-179-80



CURVE TABLE						
CURVE	DELTA	LENGTH	RADIUS	TANGENT	BEARING	CHORD
C11	31°42'18"	166.01'	300.00'	85.19'	N73°06'21"W	163.90'
C125	21°22'04"	123.07'	300.00'	62.26'	N78°16'28"W	122.36'

JOB NO.: 141564	SHEET 1 OF 3
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GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft

LEGEND

- IRON PIN END
- MONUMENT BOX
- SANITARY MANHOLE
- CATCH BASIN
- CURB INLET
- FIRE HYDRANT
- REINFORCED CONCRETE WALL
- TELEPHONE FEDESTAL
- CABLE FEDESTAL
- TRANSFORMER BOX
- FLOW DIRECTION
- EXISTING GRADE
- PROPOSED GRADE
- PROPOSED TOP OF WALL
- PROPOSED BOTTOM OF WALL

REFERENCES:

- LITTLE MOUNTAIN COUNTRY CLUB SUBDIVISION PLAT VOLUME 39, PAGE 13 DATED: JANUARY 5th, 2001
- COUNTY ROAD RECORDS
- LAKE COUNTY GIS
- FORESIGHT SUBDIVISION PLANS

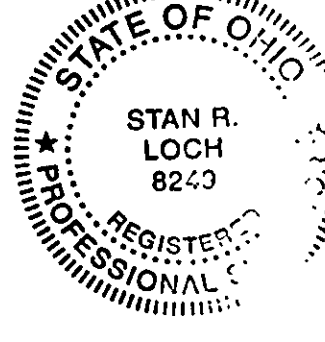
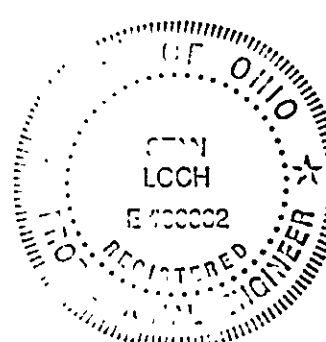
NOTES:

UTILITY INFORMATION
TAKEN FROM COUNTY
IMPROVEMENT PLANS

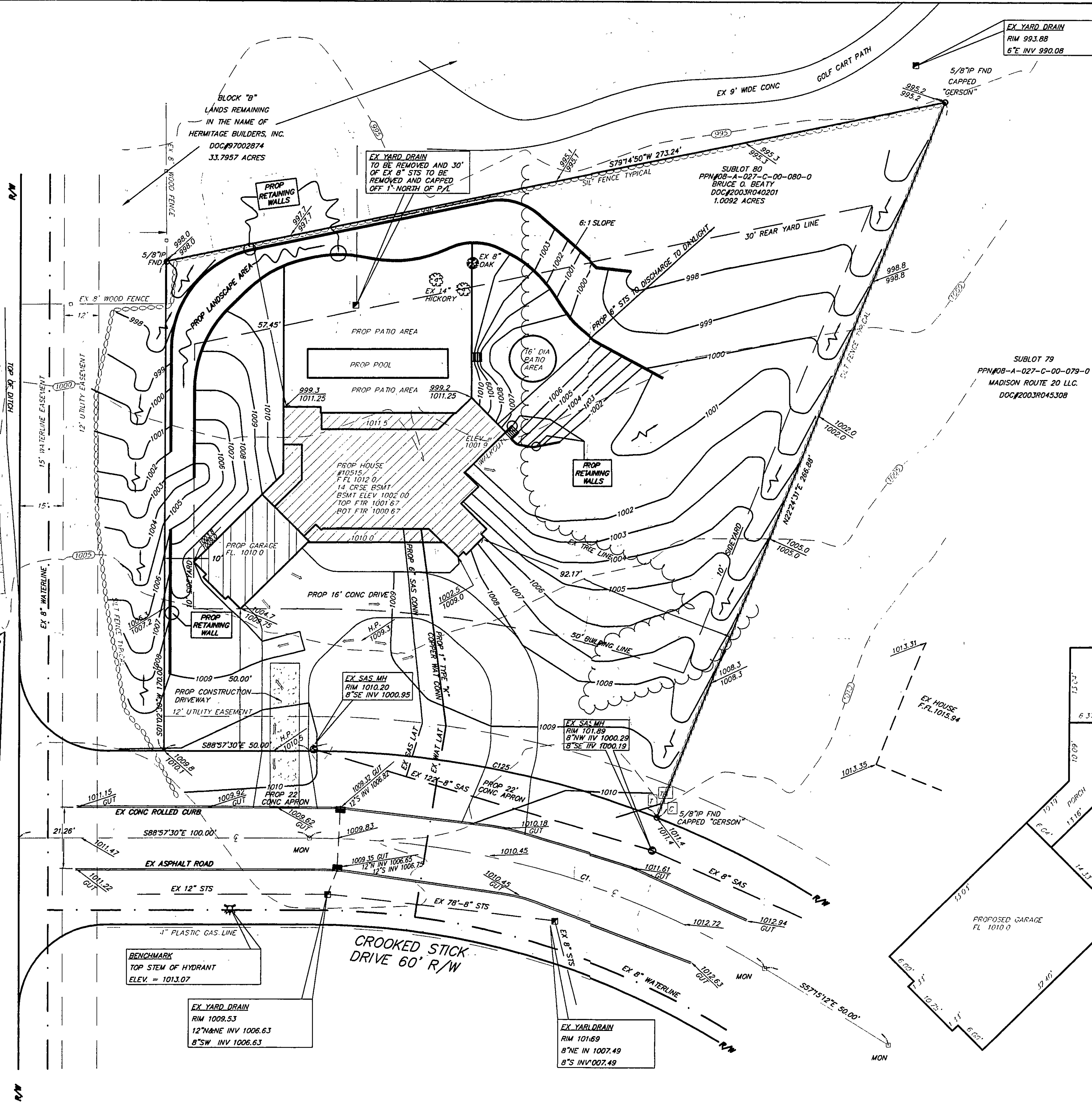
UTILITY LATERALS
MUST BE FIELD VERIFIED
BEFORE CONSTRUCTION

"I, the undersigned hereby certify that this topography, indicated by 6" or 2" contours, and elevations shown hereon represent an actual field survey made by me on the 15th day of JUNE, 2004, and that the elevations were taken at appropriate intervals and that as of that date they existed as indicated hereon."

Name: L.S. Loch
D.S. Reg.# 8249

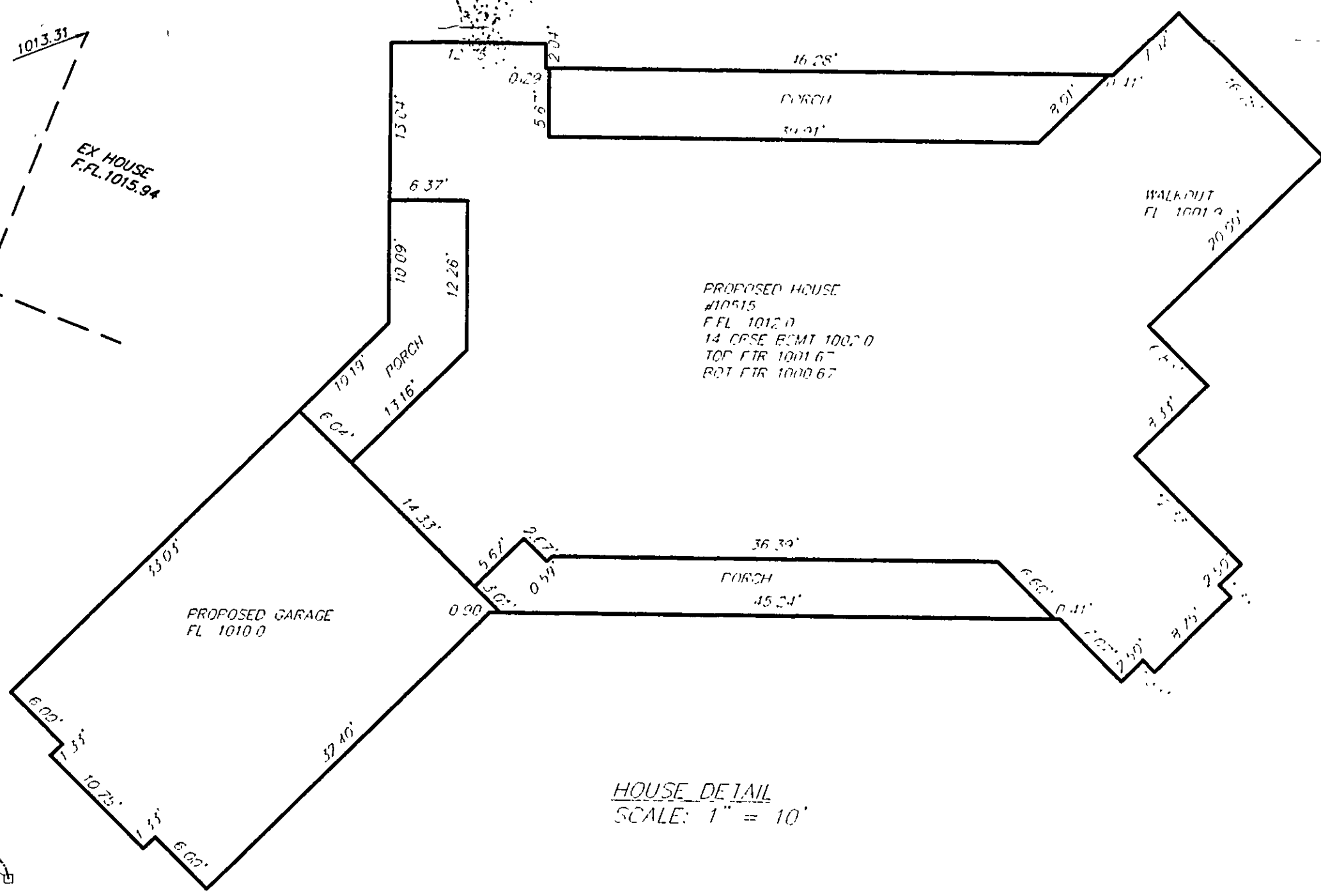


HERMITAGE ROAD 60' R/W



ZONING: R-8
RESIDENTIAL SINGLE FAMILY
MINIMUM LOT: 1 ACRE
MINIMUM SETBACK: 50' FROM R/W
MINIMUM SIDEYARD: 10' FROM PROPERTY LINE
MINIMUM REAR SETBACK: 30' FROM PROPERTY LINE

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Approved as shown and/or noted
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County Drainage Engineer
By: L.S. Date: 6/29/06
AS NOTED IN LAKE COUNTY ENGINEER'S
6/28/06 MEMO TO JERRY RANIK

SITE PLAN FOR
BRUCE BEATY
BEING SUBLOT 80 IN THE
LITTLE MOUNTAIN COUNTRY CLUB SUBDIVISION
10515 CROOKED STICK DRIVE
TOWNSHIP OF CONCORD
COUNTY OF LAKE, STATE OF OHIO

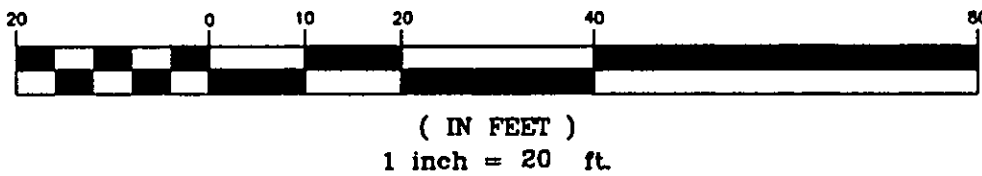
38879 MENTOR AVENUE SUITE A
WILLOUGHBY, OHIO 44094
440-602-9071

FAX 602-9401

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Civil Engineering - Land Surveying

HORIZ. SCALE: 1" = 20'	VERT. SCALE:
DRAWN BY: CL	DATE: 6/8/06
CHECKED BY: SRL	DRAWING NO.: 141564
JOB NO.: 141564	SHEET 1 OF 3

GRAPHIC SCALE



LEGEND

- = IRON PIN END
- = MONUMENT BOX
- = SANITARY MANHOLE
- = CATCH BASIN
- = CURB INLET
- ⊙ = FIRE HYDRANT
- = BEGINNING OF WALL
- = END OF WALL
- = TELEPHONE PEDESTAL
- = CABLE PEDESTAL
- = TRANSFORMER BOX
- = FLOW DIRECTION
- = SWALE
- = EXISTING GRADE
- = PROPOSED GRADE
- = PROPOSED TOP OF WALL
- = PROPOSED BOTTOM OF WALL

REFERENCES:

- 1.) LITTLE MOUNTAIN COUNTRY CLUB SUBDIVISION PLAT VOLUME 39, PAGE 13 DATED: JANUARY 5th, 2001
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- 3.) LAKE COUNTY GIS
- 4.) FORESIGHT SUBDIVISION PLANS

NOTES:

UTILITY INFORMATION TAKEN FROM COUNTY IMPROVEMENT PLANS

UTILITY LATERALS MUST BE FIELD VERIFIED BEFORE CONSTRUCTION

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HERMITAGE ROAD 60' R/W

CROOKED STICK DRIVE 60' R/W

WALL GRADES FOR
BRUCE BEATY
BEING SUBLOT 80 IN THE
LITTLE MOUNTAIN COUNTRY CLUB SUBDIVISION
10515 CROOKED STICK DRIVE
TOWNSHIP OF CONCORD
COUNTY OF LAKE, STATE OF OHIO

38879 MENTOR AVENUE SUITE A
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440-602-9071

FAX 602-9401

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HORIZ. SCALE: 1" = 20'	VERT. SCALE:
DRAWN BY: CL	DATE: 6/8/06
CHECKED BY: SRL	DRAWING NO. 141564
JOB NO.: 141564	SHEET 2 OF 3

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SCALE: NOTED

DATE: 04-25-2009

DRAWN BY: E-L-C

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high-tech pools inc.

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www.hightechpools.com

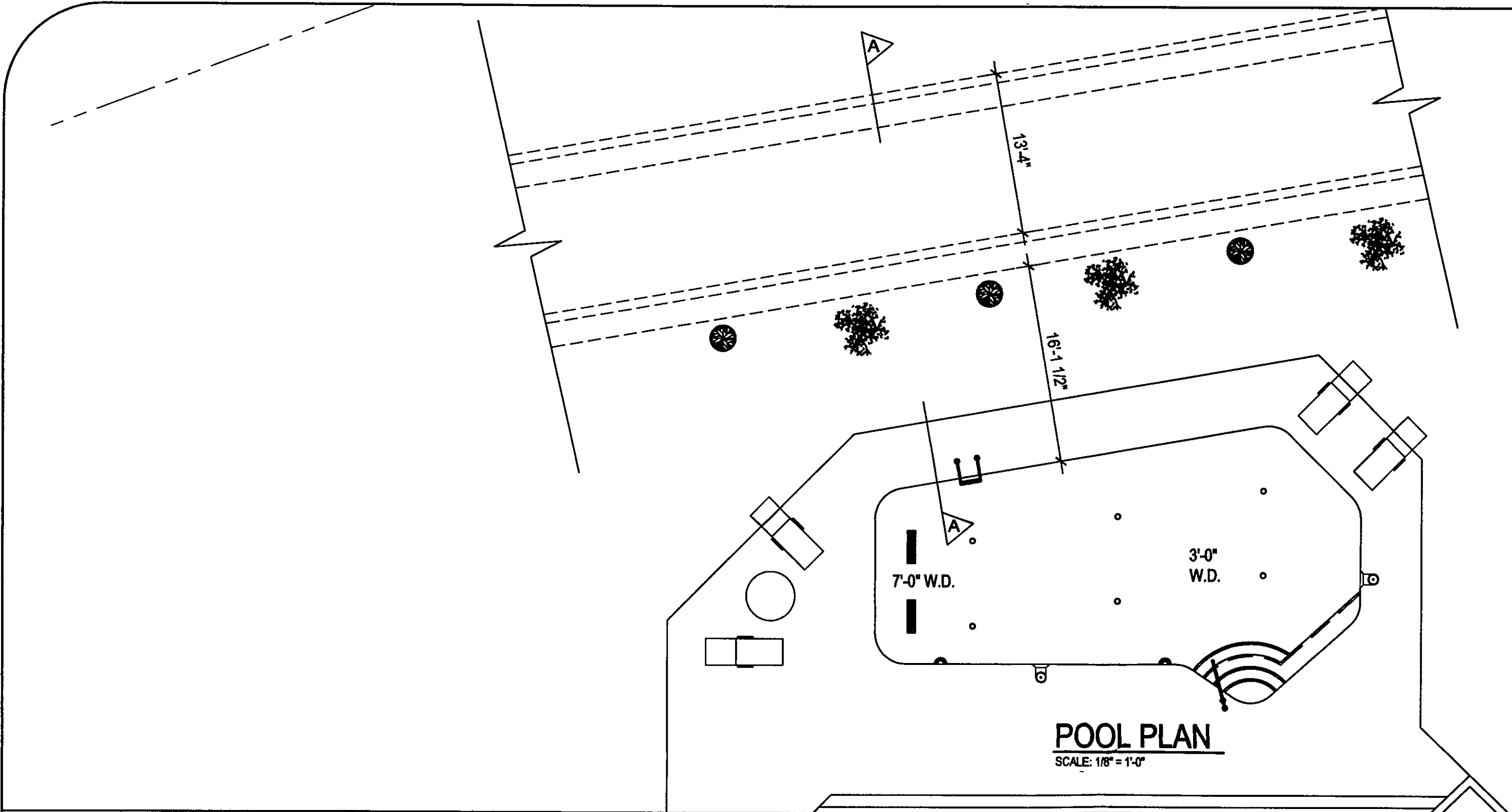
POOL: 108.09.652.19500
SPA: NONE 967

JOB: VISGER RESIDENCE

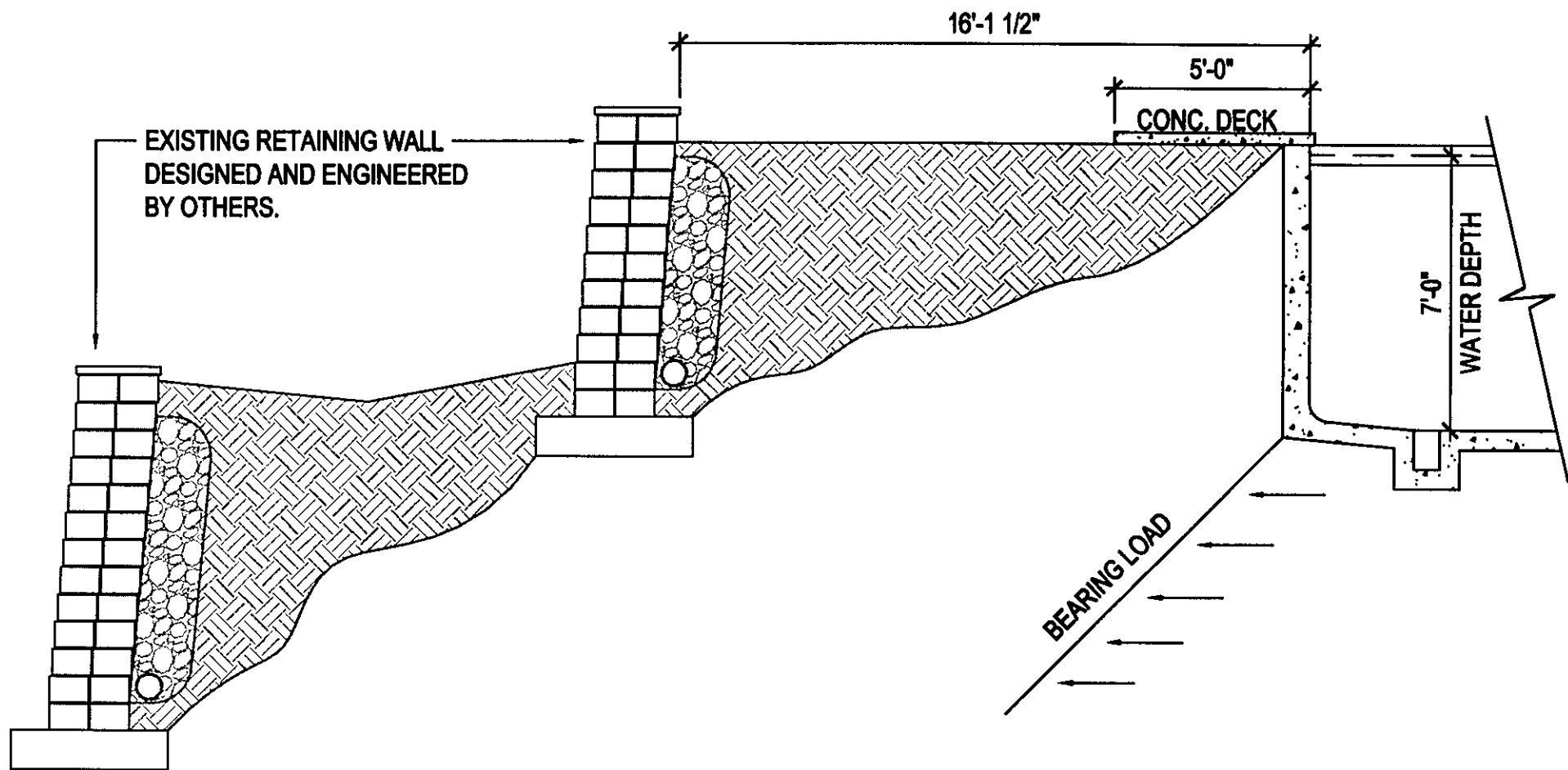
10515 Crooked Stick Drive
Concord, OH

SHEET #: POOL LOAD BEARING

POOL
LOAD BEARING
LAYOUT



POOL PLAN
SCALE: 1/8" = 1'-0"



SECTION "A"
SCALE: 1/4" = 1'-0"

COMMERCIAL

RESIDENTIAL

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high-tech pools inc.

31333 Industrial Parkway
Cleveland, Ohio 44070

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(440) 979-5076-fax

VISGER RESIDENCE

DRAWING INDEX

NUMBER	TITLE	NUMBER	TITLE
SP-C1	COVER SHEET & DRAWING INDEX		
SP-1	SITE PLAN		
SP-2	POOL LAYOUT		
SP-3	POOL EQUIPMENT, SECTIONS & DETAILS		
SP-4	POOL PLUMBING LAYOUT		
SP-5	POOL UTILITY REQUIREMENTS		
SP-6	XXXXX		
SP-7	XXXXX		
SP-8	XXXXX		
SP-9	XXXXX		
SP-10	XXXXX		
INF-1	SECTIONS & DETAILS - SHEET 1		
INF-2	SECTIONS & DETAILS - SHEET 2		
INF-3	SECTIONS & DETAILS - SHEET 3		

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CONSULTANTS

DESIGNERS

BUILDERS

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SCALE: NO SCALE

DATE: 04-08-2009

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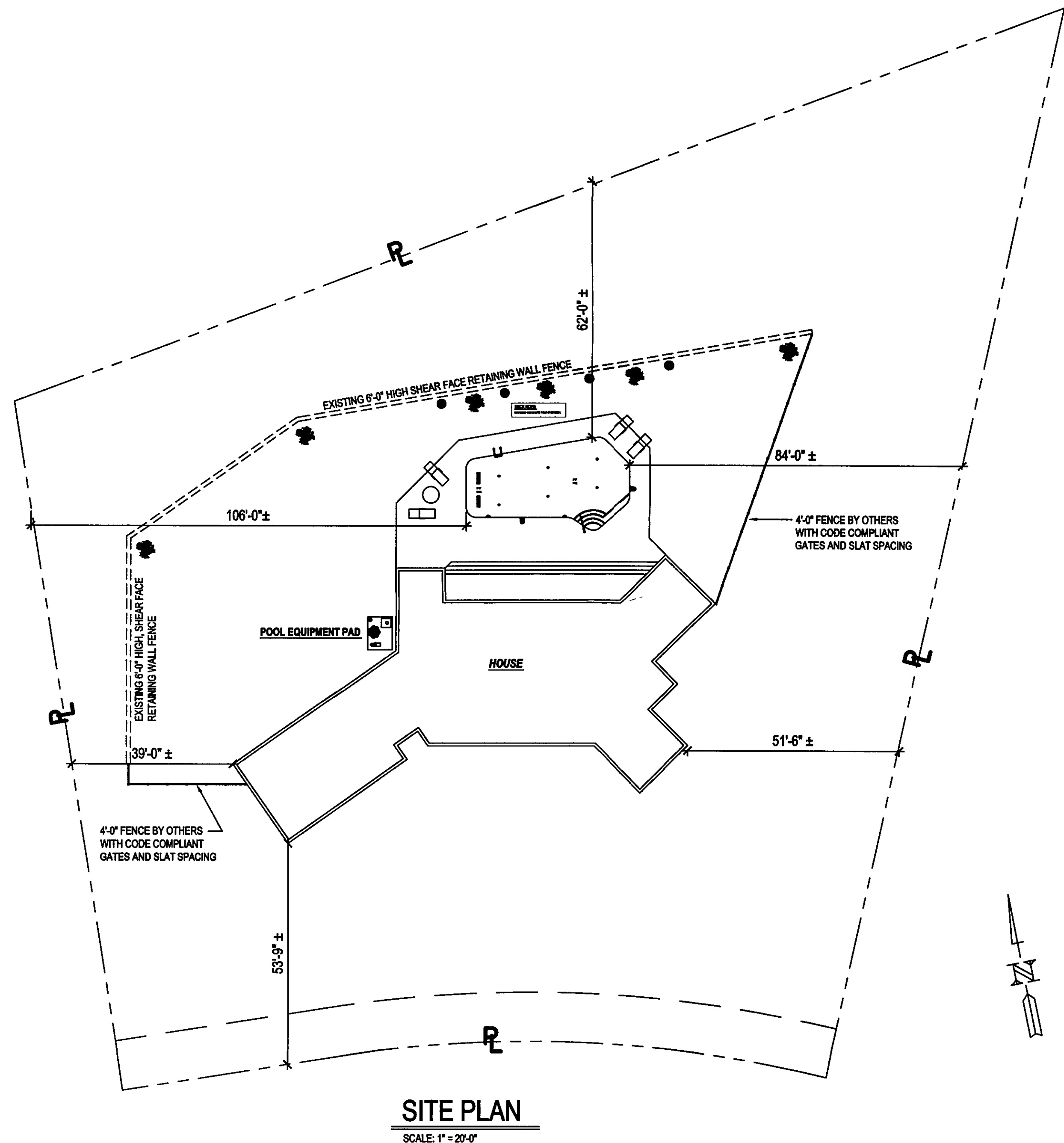
POOL: 106.09.652.19500
SPA: NONE

JOB: VISGER RESIDENCE

10515 Crooked Stick Drive
Concord, Ohio

SHEET #: SP-C1

COVER SHEET &
DRAWING INDEX



SITE PLAN
SCALE: 1" = 20'-0"

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SCALE: 1" = 20'-0"

DATE: 03-16-2009

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31333 Industrial Parkway
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www.hightechpools.com
(440) 979-5070
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POOL: 106.09.652.19500
SPA: NONE 967

JOB: VISGER RESIDENCE

10515 Crooked Stick Drive
Concord, OH

SHEET #: SP-1

SITE PLAN

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SCALE: 1/4" = 1'-0"

DATE: 04-08-2009

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31333 Industrial Parkway
Cleveland, Ohio 44070
www.hightechpools.com

(440) 979-5070
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POOL: 108.09.652.19500
SPA: NONE 967

JOB: VISGER RESIDENCE

10515 Crooked Stick Drive
Concord, OH

SHEET #: SP-2

POOL AND DECK
LAYOUT

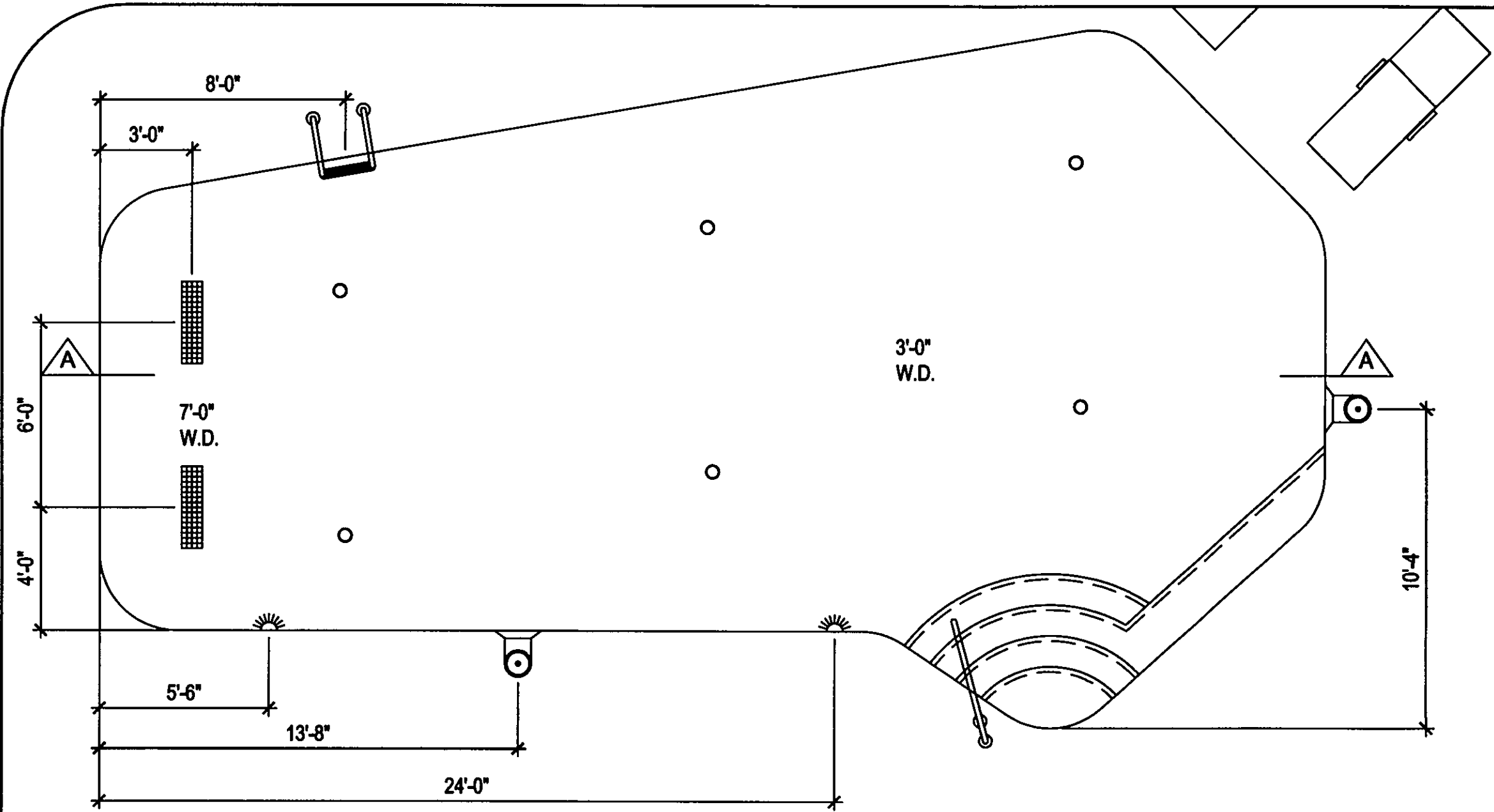
POOL PLAN

SCALE: 1/4" = 1'-0"

PAD

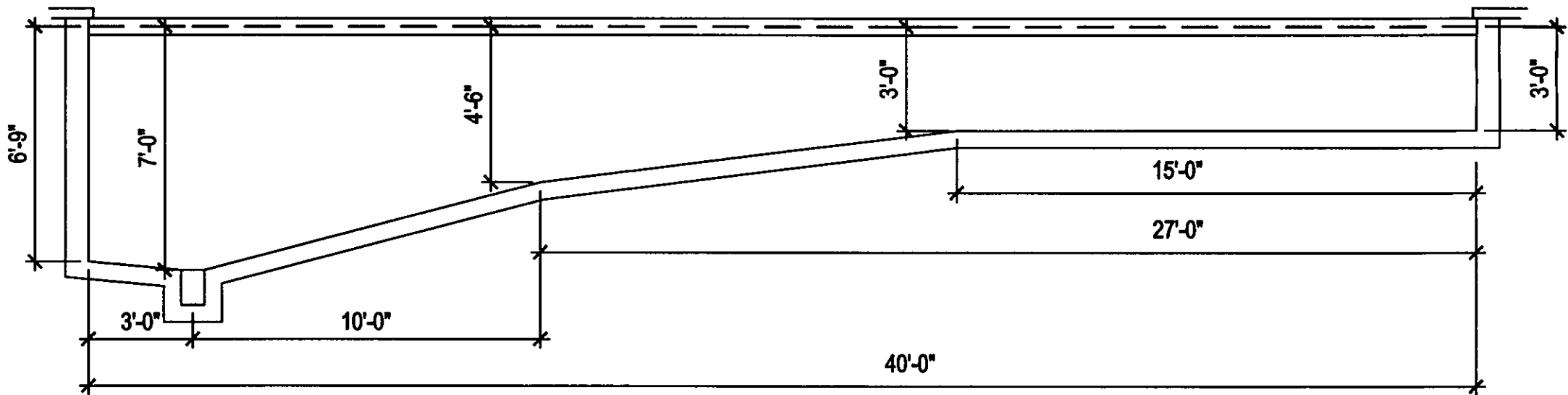
COMMERCIAL

RESIDENTIAL



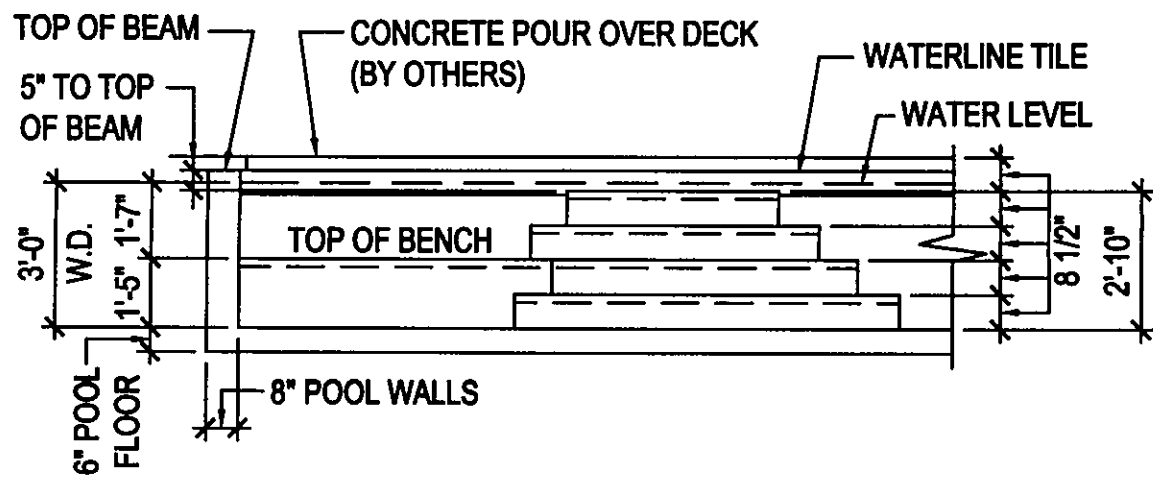
POOL EQUIPMENT LAYOUT PLAN

SCALE: 1/4" = 1'-0"



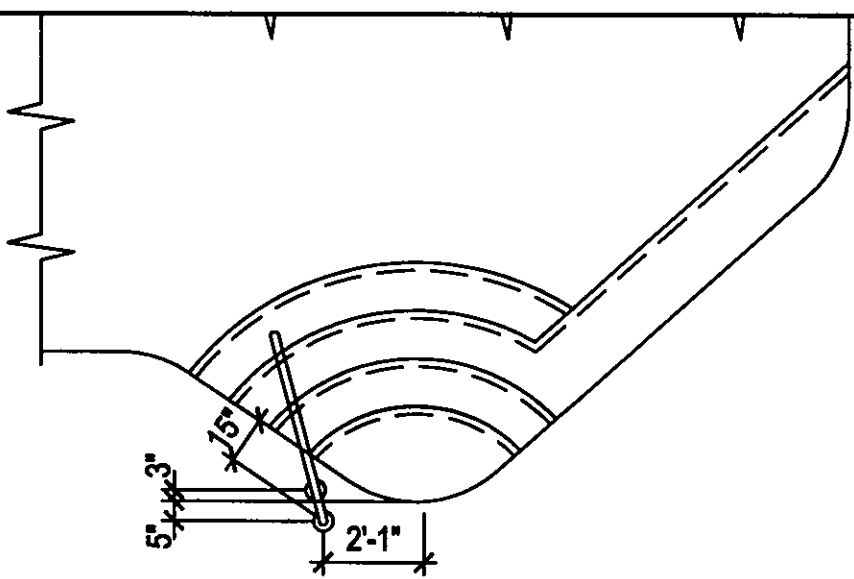
POOL SECTION "A"

SCALE: 1/4" = 1'-0"



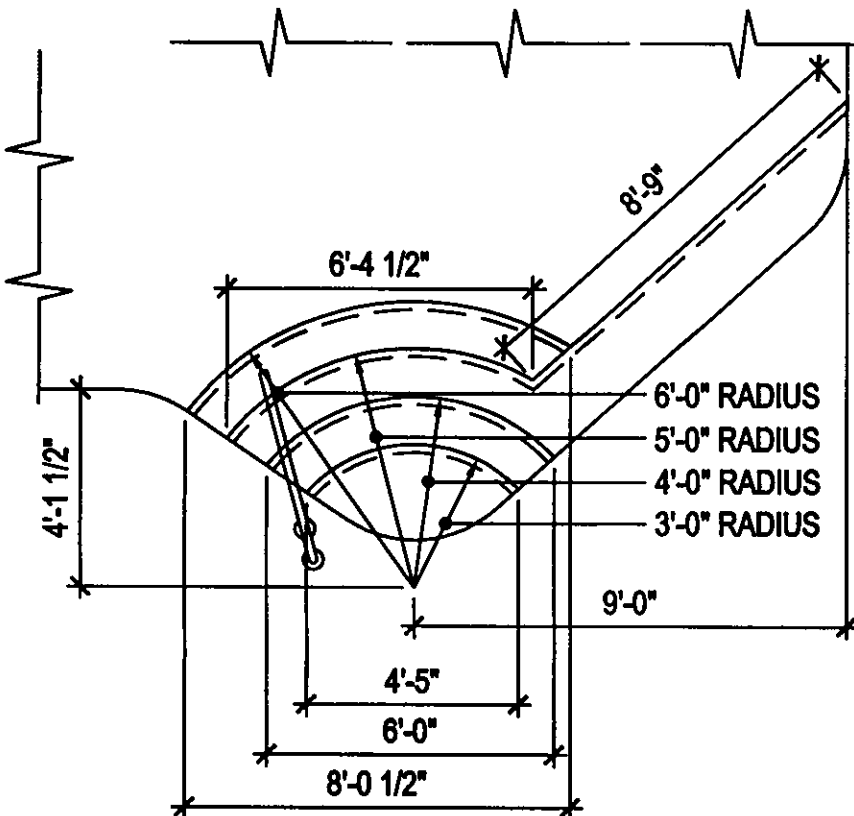
POOL STAIR & BENCH ELEVATION

SCALE: 1/4" = 1'-0"



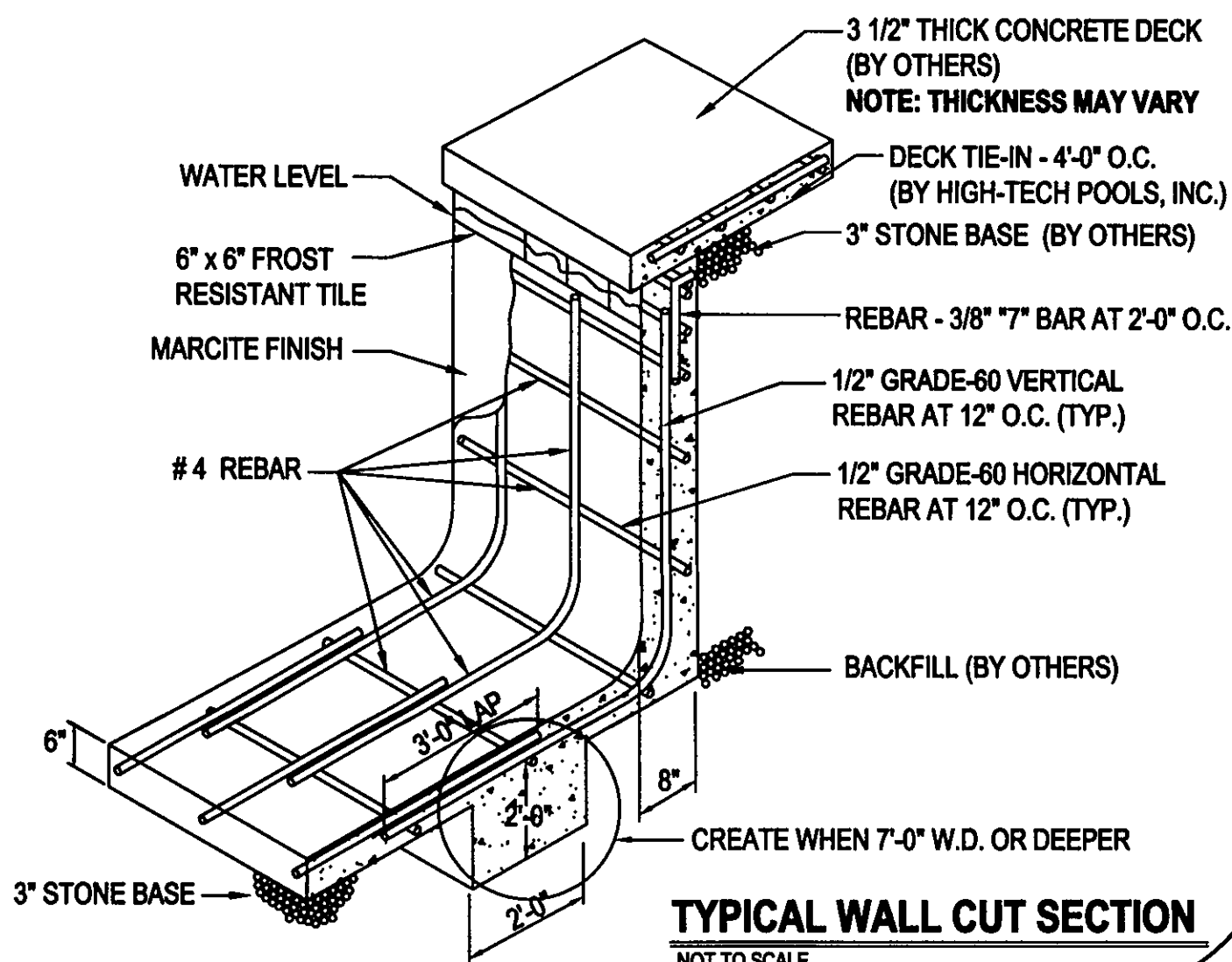
POOL HANDRAIL LAYOUT

SCALE: 1/4" = 1'-0"



POOL STAIR & BENCH LAYOUT

SCALE: 1/4" = 1'-0"



TYPICAL WALL CUT SECTION

NOT TO SCALE

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SCALE: 1/4" = 1'-0"

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high-tech pools inc.
(440) 979-5070
(440) 979-5076-fax
31333 Industrial Parkway
Cleveland, Ohio 44070
www.hightechpools.com

POOL: 108.09.652.19500
SPA: NONE 987

JOB: VISGER RESIDENCE

10515 Crooked Stick Drive
Concord, OH

SHEET #: SP-3

POOL EQUIPMENT,
SECTIONS AND
STAIR DETAILS

CONSULTANTS

DESIGNERS

BUILDERS

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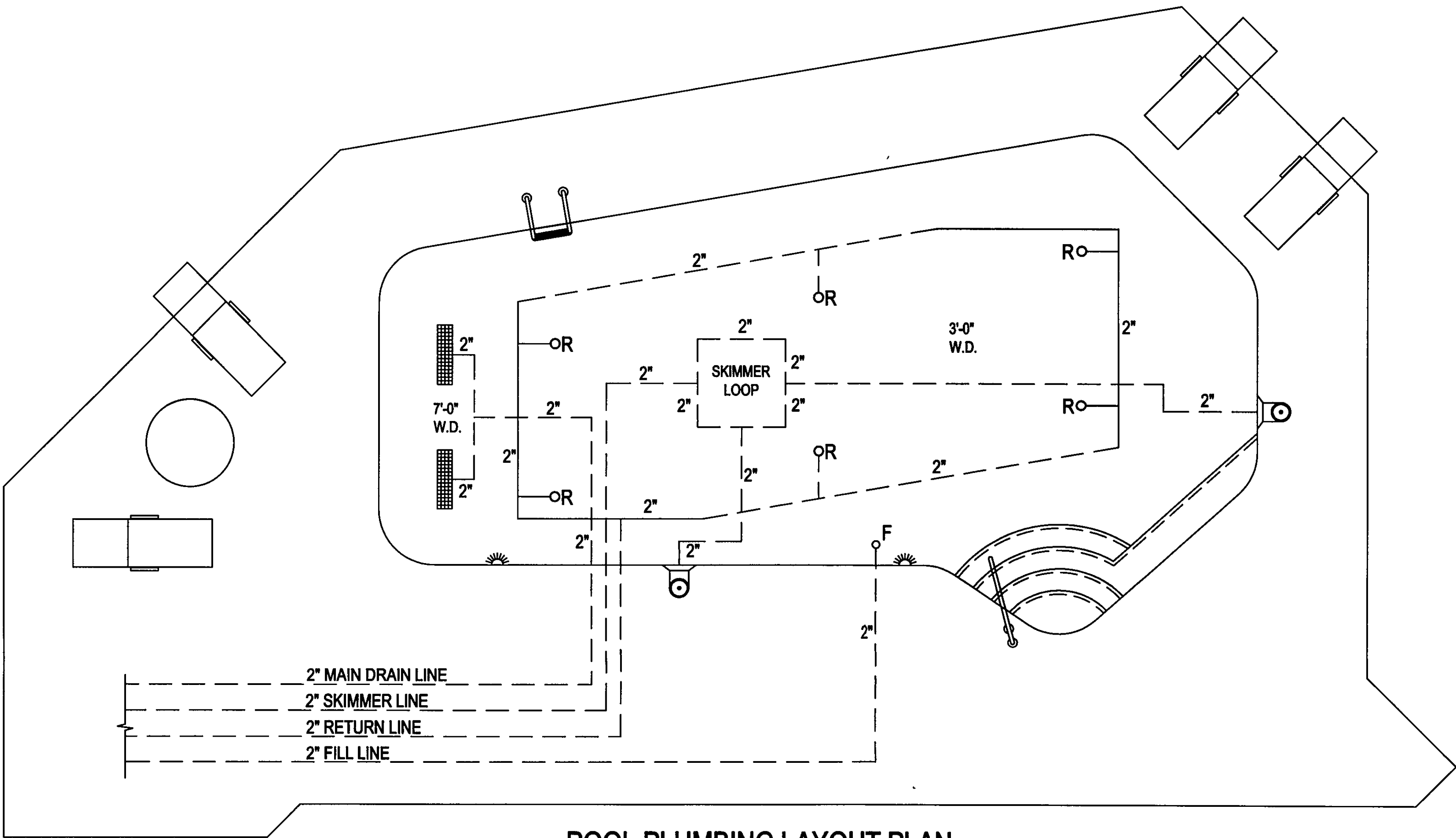
POOL: 108.09.852.19,500
SPA: NONE 987

JOB: VISGER RESIDENCE

10515 Crooked Stick Drive
Concord, OH

SHEET #: SP-4

POOL PLUMBING
AND EQUIPMENT
LAYOUT

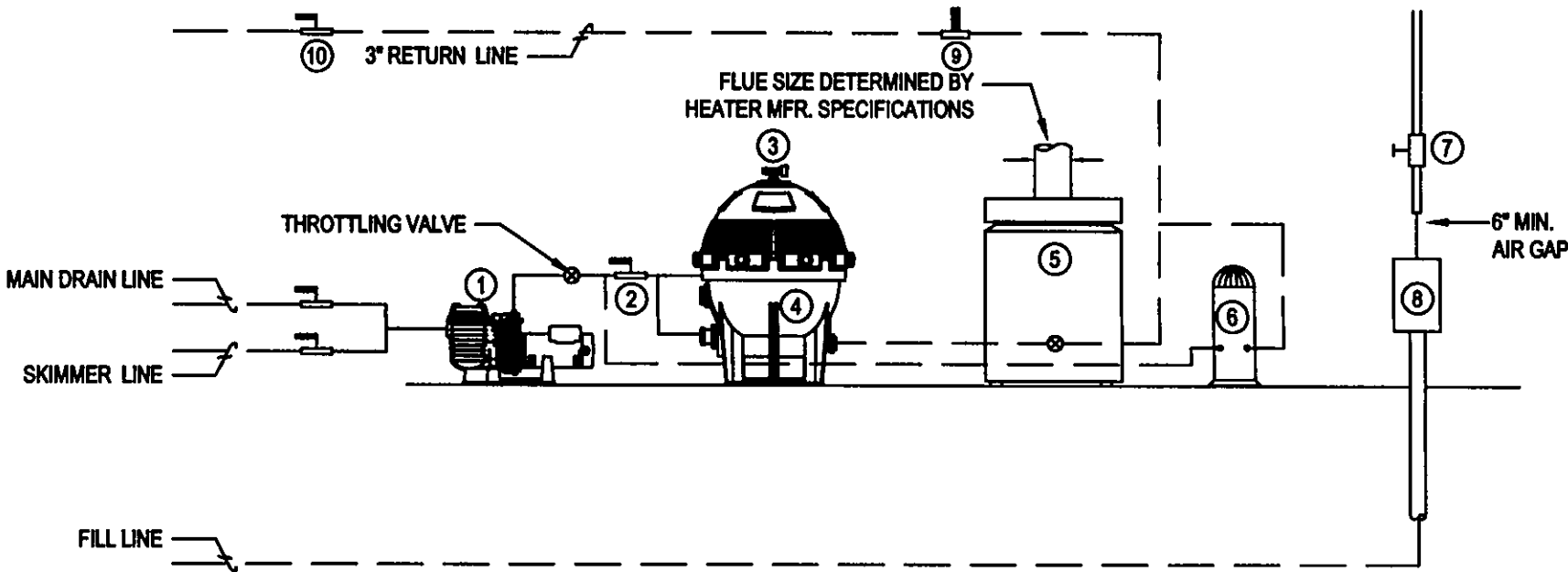


POOL PLUMBING LAYOUT PLAN

SCALE: 1/4" = 1'-0"

RESIDENTIAL POOL EQUIPMENT SCHEDULE		GALLONS: 19,500
1.	1/2 HP RECIRCULATION PUMP – STA-RITE – MAX-E-PRO – MODEL # P6E6CL	
2.	MULTIPORT VALVE	
3.	DELTA PRESSURE GAUGE	
4.	STA-RITE – SAND FILTER – MODEL # S8S70	
5.	175,000 BTU NAT GAS TELEDYNE-LAARS HEATER	
6.	EROSION CHLORINATOR - RAINBOW MODEL #300-29x	
7.	1" FILL LINE W/ 1" BALL VALVE	
8.	FILL POT	
9.	2" FLOWMETER	
10.	2" RETURN BALL VALVE	

✓ = BY OTHERS



RESIDENTIAL POOL EQUIPMENT SCHEMATIC

SCALE: NONE

UTILITY REQUIREMENTS:**PUMPS:**

P6E6CL STA-RITE 1/2 H.P. 115/230 VOLTAGE 11.0 / 5.5 MAX. LOAD AMPS
P6E6DL STA-RITE 3/4 H.P. 115/230 VOLTAGE 13.8 / 6.9 MAX. LOAD AMPS
P6E6EL STA-RITE 1 H.P. 115/230 VOLTAGE 16.0 / 8.0 MAX. LOAD AMPS
P6E6FL STA-RITE 1.5 H.P. 230 VOLTAGE 10.4 MAX. LOAD AMPS
P6E6GL STA-RITE 2 H.P. 230 VOLTAGE 11.2 MAX. LOAD AMPS
P6E6HL STA-RITE 3 H.P. 230 VOLTAGE 15.0 MAX. LOAD AMPS

AIR BLOWER:

R4110-2 GAST 1 H.P. 115/208 VOLT 9.8/5.2 AMPS

GAS PIPE SIZE REQUIREMENT:

HEATER SIZE	0-50 FEET (0-15 m)	50-100 FEET (15-30 m)	100-200 FEET (30-60 m)	VENT DIAMETER
125 BTU	3/4 (19)	1 (25.4)	1 (25.4)	5"
175 BTU	1 (25.4)	1 (25.4)	1.25 (31.75)	6"
250 BTU	1 (25.4)	1.25 (31.75)	1.25 (31.75)	7"
325 BTU	1.25 (31.75)	1.25 (31.75)	1.5 (38)	8"
400 BTU	1.25 (31.75)	1.5 (38)	1.5 (38)	9"

115/230/24 VOLT TRANSFORMER

LIGHTS:

POOL LIGHT:	QTY:	300 WATTS 7 AMPS EACH 115 / 110 VOLTS
SPA LIGHT:	QTY:	100 WATTS 7 AMPS EACH 115 / 110 VOLTS
POOL 'SAM' LIGHT:	QTY:	140 WATTS 1.16 AMPS EACH 120 VOLTS
SPA 'SAL' LIGHT:	QTY:	70 WATTS .625 AMPS EACH 120 VOLTS

IMPORTANT NOTE:

IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO SUPPLY THE PROPER VOLTAGE FOR EACH PUMP MOTOR.
THIS REQUIREMENT MAY INDICATE THE NEED TO BOOST VOLTAGE WITH A TRANSFORMER.
MOTOR RATED AT 230v WILL OVERHEAT AND HAVE REDUCED LIFE EXPECTANCIES IF RUN ON 207v (30)

PLEASE NOTE -- ALL UTILITY WORK TO BE BY OTHERS AS APPLIES:

ALL ELECTRICAL SWITCHING AND GROUNDING TO BE BY OTHERS.
WHIRLPOOL ACTUATION TO BE INSTALLED BY ELECTRICIAN PER N.E.C. CODE.
POOL LIGHT SWITCHING BY OTHERS.
LIGHTS SUPPLIED WITH 50' CORDS.
JUNCTION BOX 18" ABOVE POOL WATER.
ELECTRICIAN RESPONSIBLE TO PULL ALL LIGHTS WITH #8 GROUND WIRE.
JET PUMP AND AIR BLOWER TO COME ON TOGETHER WITH A 15-MINUTE TIMER. (SUPPLIED BY ELECTRICIAN).
ALL PUMPS NEED SEPARATE SWITCHES IN FILTER ROOM FOR MAINTENANCE PERSON TO TURN ON AND OFF.

SPA WITH CHEMICAL CONTROLLERS:

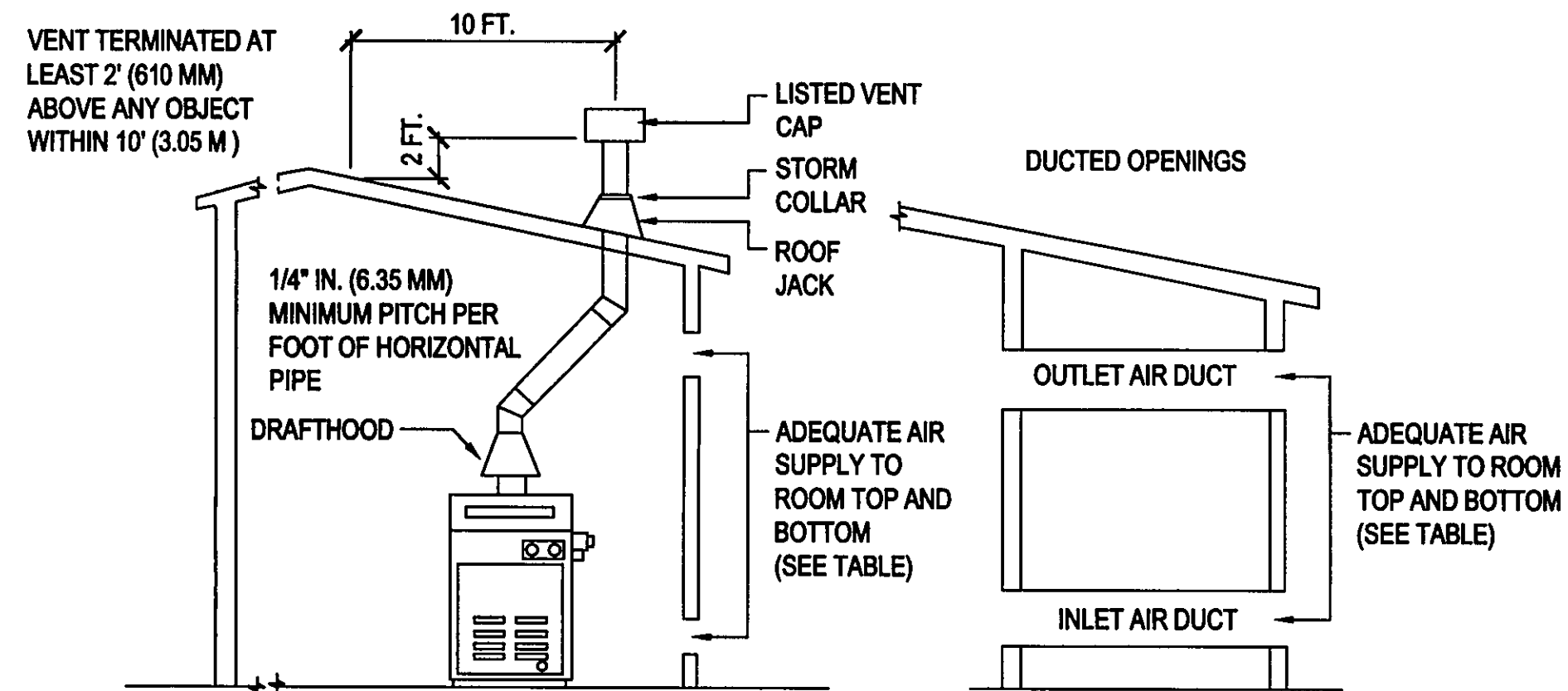
110-VOLT DUPLEX OUTLET LOCATED BY SPA CHEMICAL CONTROLLER IS NEEDED IN FILTER ROOM.
(THIS OUTLET IS TO BE ELECTRICALLY INTERLOCKED WITH SPA CIRCULATION FILTER PUMPS SO THAT THERE IS POWER TO THE OUTLET ONLY WHEN SPA RECIRCULATION FILTER PUMP IS ON.)

DRAIN AND WATER SUPPLY:

DRAIN NEEDED IN FILTER ROOM - 6" OR 8" CROCK WITH 4" DRAIN LINE.
WATER SUPPLY - 1" WATER SUPPLY LINE TO POOL FILL POT WITH 1" VALVE AND SAME TO SPA FILL POT.
(SUPPLIED BY THE PLUMBER OR A DIRECT TIE IN WITH WATTS 900 BACKFLOW PREVENTOR.)

DISCLAIMER:

IT IS THE RESPONSIBILITY OF EACH UTILITY CONTRACTOR TO OBTAIN THE LATEST INFORMATION REQUIRED TO INSTALL EACH PIECE OF EQUIPMENT.
THIS SHEET SHOULD BE USED AS A GUIDE, HOWEVER, EACH CONTRACTOR IS RESPONSIBLE TO FOLLOW ALL MANUFACTURERS RECOMMENDATIONS AND STATE OR LOCAL CODES THAT MAY APPLY.

BY OTHERS**REQUIRED NET FREE OPEN AREA FOR COMBUSTION AIR OPENINGS**

MODEL	DIRECT FROM OUTSIDE		DUCT FROM OUTSIDE	
	INCHES	(CM)	INCHES	(CM)
125 BTU	32	(206)	64	(413)
175 BTU	44	(284)	88	(568)
250 BTU	63	(406)	126	(813)
325 BTU	82	(429)	164	(1058)
400 BTU	100	(645)	200	(1290)

NOTE:

IF USING SCREENS AND/OR LOUVERS, COMPENSATE BY ADDING 50% ADDITIONAL AREA TO EACH OPENING

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SCALE: NONE

DATE: 04-08-2009

DRAWN BY: E-L-C

REV. -

REV. -

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high-tech pools inc.
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(440) 979-5076-fax
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Cleveland, Ohio 44070
www.hightechpools.com

POOL: 106.09.852.19.500
SPA: NONE

JOB: VISGER RESIDENCE

10515 Crooked Stick Drive
Concord, OH

SHEET #: SP-5

**POOL UTILITY
REQUIREMENTS**